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## Detection of *Helicobacter pylori* in oral lesions

Soussan Irani<sup>1</sup>, Alireza Monsef Esfahani<sup>2</sup> and Farahnaz Bidari Zerehpoush<sup>3</sup>

<sup>1</sup>University of Medical Sciences, Iran

<sup>2</sup>Hamadan University of Medical Sciences, Iran

<sup>3</sup>Shahid Beheshti University of Medical Science, Iran

**Background and aims.** *Helicobacter pylori* is a microaerophilic gram-negative spiral organism. It is recognized as the etiologic factor for peptic ulcers, gastric adenocarcinoma and gastric lymphoma. Recently, it has been isolated from dental plaque and the dorsum of the tongue. This study was designed to assess the association between *H. pylori* and oral lesions such as ulcerative/inflammatory lesions, squamous cell carcinoma (SCC) and primary lymphoma.

**Materials and methods.** A total of 228 biopsies diagnosed as oral ulcerative/inflammatory lesions, oral squamous cell carcinoma (OSCC) and oral primary lymphoma were selected from the archives of the Pathology Department. Thirty-two samples that were diagnosed as being without any pathological changes were selected as the control group. All the paraffin blocks were cut for hematoxylin and eosin staining to confirm the diagnoses and then the samples were prepared for immunohistochemistry staining. Data were collected and analyzed.

**Results.** Chi-squared test showed significant differences between the frequency of *H. pylori* positivity in normal tissue and the lesions were examined ( $P=0.000$ ). In addition, there was a statistically significant difference between the lesions examined ( $P=0.042$ ). Chi-squared test showed significant differences between *H. pylori* positivity and different tissue types except inside the muscle layer as follows: in epithelium and in lamina propria ( $P=0.000$ ), inside the blood vessels ( $P=0.003$ ), inside the salivary gland duct ( $P=0.036$ ), and muscle layer ( $P=0.122$ ).

**Conclusion.** There might be a relation between the presence of *H. pylori* and oral lesions. Therefore, early detection and eradication of *H. pylori* in high-risk patients are suggested.

## Biography

Soussan Irani is an assistant professor of oral & maxillofacial pathology 2002 to present currently teaching oral pathology, oral histology, oral embryology and oral biology, and basic pathology. she received her dds from ferdowsi university, mashad , iran, diploma in tropical medicine & public health, also awarded PhD at Griffith university

[s.irani@griffith.edu.au](mailto:s.irani@griffith.edu.au)

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